

Notice of Allowability

Application No.

10/767,070

Examiner

Vanessa (Brandi) Coleman

Applicant(s)

OHNO, TAKEHIDE

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

WAYNE YOUNG
SUPERVISORY PATENT EXAMINER

Prior Art Citation

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Iwazawa et al., US Publication Number 2003/0179665 and Nagaoka et al., US Patent Number 7,196,991 each disclose an optical disk apparatus capable of detecting and setting a tilt of the objective lens based on a disk signal, including an RF signal, jitter value of the RF signal, and a tracking error or push-pull signal.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-9

None of the prior art of record alone or in combination discloses or suggests a tilt correction method or apparatus including acquiring first information about a specific inclination of the object lens; next acquiring second information about the optimum inclination of the object lens for the target access area; and finally acquiring a tilt correction information, and viewing the claims as a whole, further including the specific inclination corresponding to one obtained when a characteristic of a push-pull signal becomes a prescribed level in or near a target access area, the second information being based on the first information and tilt difference information representing a

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difference between a first inclination, corresponding to an optimum reproduced signal from a particular area on the information recording medium and a second inclination obtained when the signal characteristic of the push-pull signal from said particular area becomes said prescribed level and where the tilt correction acquiring step includes being based on the second information.

Regarding claims 10-14

None of the prior art of record alone or in combination discloses or suggests optical disk apparatus including the combination of recited elements (refer to claims 10-14) and viewing the claims as a whole, further including acquiring first information about a specific inclination of the object lens; next acquiring second information about the optimum inclination of the object lens for the target access area; and finally acquiring a tilt correction information, and further including the specific inclination corresponding to one obtained when a characteristic of a push-pull signal becomes a prescribed level in or near a target access area, the second information being based on the first information and tilt difference information representing a difference between a first inclination, corresponding to an optimum reproduced signal from a particular area on the information recording medium and a second inclination obtained when the signal characteristic of the push-pull signal from said particular area becomes said prescribed level and where the tilt correction acquiring step includes being based on the second information.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

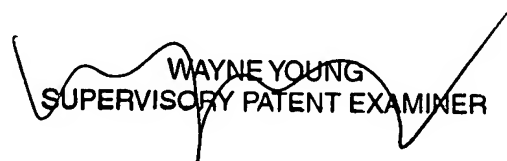
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vanessa (Brandi) Coleman whose telephone number is (571) 2672-9081. The examiner can normally be reached on Monday-Thursday 8:30-6 pm, 2nd Friday 8:30-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vanessa (Brandi) Coleman
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VC


WAYNE YOUNG
SUPERVISORY PATENT EXAMINER